Certificate of Analysis

Naloxone hydrochloride Product Name:

CAS Number: 357-08-4 Catalog No.: 0599

Batch No.: 10

EC Number: 206-611-0

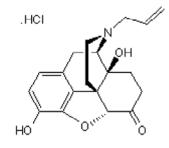
IUPAC Name: (5a)-4,5-Epoxy-3,14-dihydro-17-(2-propenyl)morphinan-6-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₁₉H₂₁NO₄.HCI.2H₂O 399.87 White solid water to 100 mM Store at RT



2. ANALYTICAL DATA

Storage:

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.5% purity Consistent with structure Consistent with structure

	Carbon H	ydrogen N	itrogen
Theoretical	57.07	6.55	3.5
Found	57.09	6.52	3.49

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Print Date: Feb 24th 2023

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Product Information

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Product Name: Naloxone hydrochloride

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10

EC Number: 206-611-0

IUPAC Name: (5a)-4,5-Epoxy-3,14-dihydro-17-(2-propenyl)morphinan-6-one hydrochloride

Description:

Naloxone hydrochloride is an opioid antagonist.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₂₁NO₄.HCI.2H₂O Batch Molecular Weight: 399.87 Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:

.HCI

Storage: Store at RT

Solubility & Usage Info: water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Pinelli and Trivulzio (1997) Quantitative evaluation of opioid withdrawal signs in rats repeatedly treated with mor. and injected with naloxone, in the absence or presence of the antiabstinence agent clon. J.Pharmacol.Toxicol.Methods 38 117. PMID: 9523765.

Spivak et al (1997) Naloxone activation of mu-opioid receptors mutated at a histidine residue lining the opioid cavity. Mol. Pharmacol. 52 983. PMID: 9415708.

Olson et al (1996) Endogenous opiates: 1995. Peptides 17 1421.

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